DEC 27 2005

NORTHROP GRUMMAN

Interconnect Technologies Division Litton Systems, Inc. 4811 W. Kearney Springfield, MO 65803

December 19, 2005

Mr. Trevor Urban Environmental Scientist/RCRA Inspector U.S. Environmental Protection Agency, Region VII 901 North 5th Street Kansas City, Kansas 66101

RE: Corrective Actions for Notice of Violation Issued December 7, 2005

Dear Mr. Urban,

Pursuant to the Notice of Violation (NOV) that was issued at the completion of your RCRA inspection on December 6th and 7th, 2005, Litton Systems, Inc. Interconnect Technologies Division (Litton-ITD), which is a wholly owned subsidiary of Northrop Grumman Systems Corporation, is providing the following response. Litton-ITD has corrected all of the violations noted in the NOV. Supporting documentation of the corrective actions taken is attached to this letter.

#	Citation	Description of Violation	Corrective Action(s)
1	10 CSR 25-5.262(1) per 40 CFR 265.171	Failure to keep satellite accumulation container closed. (PISM area)	A daycan (which closes automatically) was put in the PISM area. Operators in that area have been re-trained to ensure that the daycan remains closed, except when contents are added or removed. See Attachment #1 for a picture of the container.
2	10 CSR 25-5.262(1) per 40 CFR 262.34(c)(1)(ii)	Failure to mark/identify contents of satellite accumulation container and put start date on container. (PISM and Environmental Lab)	The two containers of waste nitric acid solution in the Environmental Lab and the daycan in the PISM area have been marked and dated. Refresher training on applicable container labeling requirements has been provided to operators in their respective areas. See Attachments #2A and #2B for pictures of the three containers.



#	Citation	Description of Violation	Corrective Action(s)
3	10 CSR 25-5.262(1) per 40 CFR 262.34(c)(1)&(2)	Failure to move satellite container to storage and place satellite container at/near point of generation (i.e. waste paint).	The container of waste paint was moved to the 90-day storage area. Operators have also been instructed to perform all future paint consolidation within the 90-day storage area. See Attachment #3 for a picture of the container in the 90-day storage area.
4	10 CSR 25- 5.262(2)(B)(1)&(2)	Failure to provide license plate number and specific gravity on manifests.	The license plate number and specific gravity appears to be missing only from those manifests prepared by Safety Kleen. Safety Kleen was contacted and has agreed to place such information on all future manifests. Further, Safety Kleen amended the manifest template to include specific gravity and the license plate number. In addition, Litton-ITD has created a manifest checklist to be used to review the manifest prior to shipment of waste. See Attachment #4 for a copy of the revised manifest and the manifest checklist.
5	10 CSR 25-5.262(1) per 40 CFR 265.16(d)(1),(2),&(3)	Failure to have written job descriptions for employees performing hazardous waste management to include duties performed and initial and continual training.	The RCRA Hazardous Waste Management Program has been amended to include written job descriptions and training information. See Attachment #5 for a revised copy of the program.

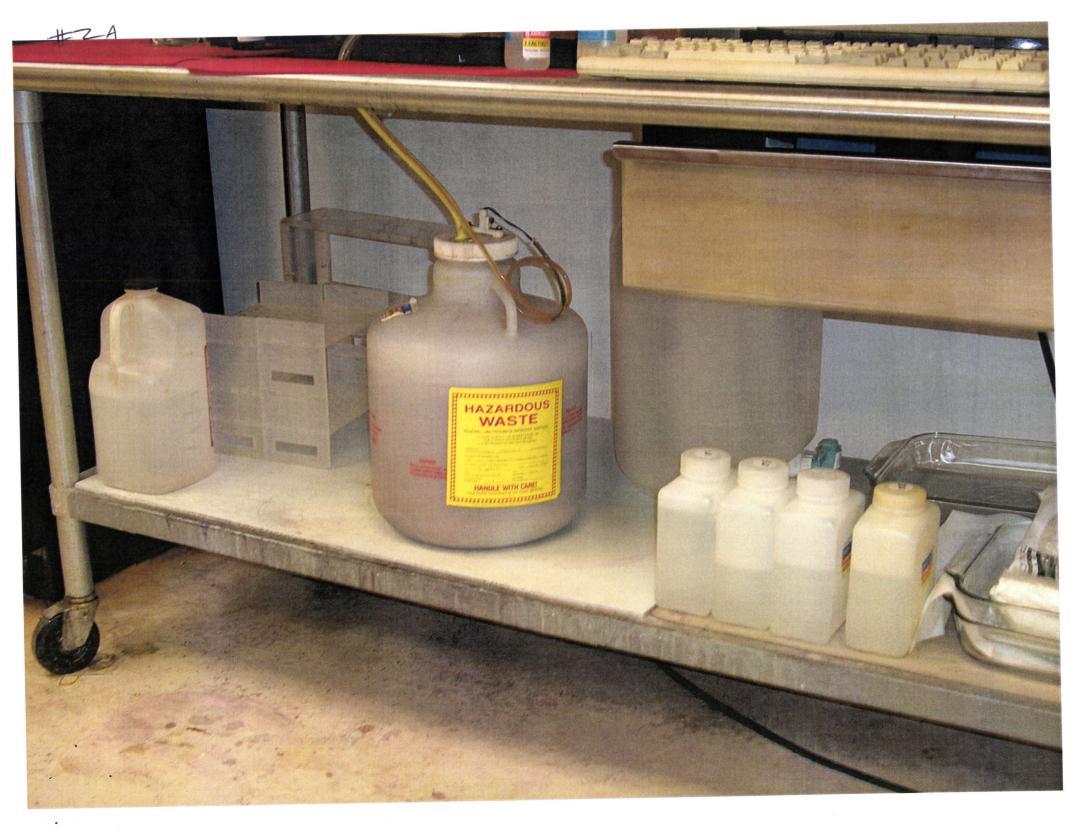
If you have any questions, or need more information, please call me at (417) 829-5350.

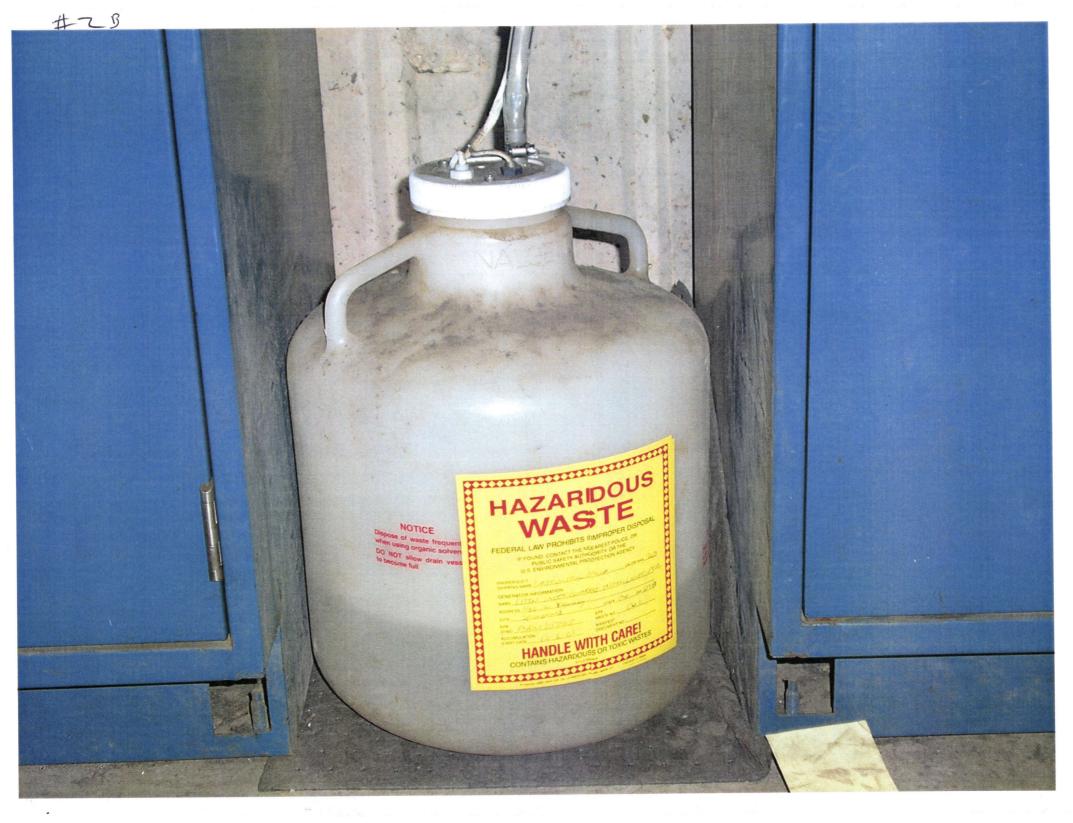
Sincerely,

Jami Norton Gay Environmental Engineer

Jill Palmer – Northrop Grumman Jay Tolle – Northrop Grumman cc:









Hazardous Waste Manifest Checklist – Missouri Facilities

Facilit	y Na	me .
EPA I) Nu	mber
State	Vlan	ifest#
Name Comp		erson g Checklist
Date		
1	iter	n ¹
		he manifest an approved manifest? (OMB control number 2050-0039; EPA Form 8700-22)
		 If the state to which the shipment is manifested (consignment state) supplies the manifest and requires its use, then the generator shall use that state's manifest.
		 If the consignment state does not supply the manifest then the generator must use a State of Missouri manifest.
	1.	Generator's US EPA ID number - Manifest Document Number
		 Verify that the correct 12-digit US EPA ID number is entered for the facility.
		 Verify that the manifest document number (5-digit number unique to the manifest) is entered on all pages of the manifest and is sequential to previous manifests.
	2.	Number of Pages
		Verify that the correct number of pages is entered.
	3.	Generator's Name and Mailing Address
		 Verify that the facility name and mailing address for the contact person that will maintain the manifest files at the generator facility is entered.
	4.	Generator's Phone Number
_		Verify that the phone number for the contact person at the generator facility is entered.
	5.	Transporter 1 (Company Name)
		 Verify that the company name of the first transporter who will transport the waste is entered.
	6.	Transporter 1 - US EPA ID Number
		 Verify that the correct 12-digit US EPA ID number of the transporter is entered.
	7.	Transporter 2 (Company Name, if applicable)
		Not applicable at time of initial shipment, unless known in advance.
	8.	Transporter 2 - US EPA ID Number, if applicable
		Not applicable at time of initial shipment, unless known in advance.

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Electronic Systems

¹ Item number or letter, if provided, correlates to the Uniform Hazardous Waste Manifest.

'	Item ¹
	9. Designated Facility Name and Site Address
	Verify that the name and site address of the designated facility is entered.
	 Verify that the designated facility is on the Northrop Grumman ES Approved Treatment, Storage, & Disposal Facility (TSDF) list.
	10. Designated Facility - US EPA ID Number
	 Verify that the correct US EPA ID number of the designated facility is entered.
	A. State Manifest Document Number
	 Verify that the site's six digit Missouri Generator I.D. number is entered.
	 Verify that the shipment number (4-digit number unique to the manifest) is entered and is sequential to previous manifests. (This number should correspond to the Manifest Document No. entered in section 1.)
	B. State Generator's ID Number
	 Verify that the generator's physical site address is entered here. If the mailing address and the site address are the same enter the word "SAME".
	C. Transporter 1 - State Transporter's ID
	NOTE: For non-Missouri manifests the information required below must be entered in section 15. Special Handling and Additional Information.
	 Verify that the license number assigned to the transportation firm is entered.
	 Verify that the license plate number and the state of registration for the waste-carrying portion of the vehicle used to transport the waste is entered.
	Verify that the driver has a driver's license with a hazardous materials endorsement.
	D. Transporter 1 Phone
	 Verify that the telephone number where an authorized agent of the transporter may be reached is entered.
	E. Transporter 2 - State Transporter's ID
	Not applicable at time of initial shipment, unless known in advance.
	F. Transporter 2 Phone
	Not applicable at time of initial shipment, unless known in advance.
	G. State Facility's ID, if applicable
	 Verify that the correct State of Missouri six digit identification code is entered for shipments to a Missouri TSDF. If none has been assigned, leave blank.
	H. Facility's Phone
	 Verify that the telephone number where an authorized agent of the Designated Facility (TSDF) may be reached.

1	Item ¹
	11. US DOT Description
	Must include for each line item:
	U.S. DOT Proper Shipping Name (include the word "Waste" for all hazardous wastes and, if applicable, the letters "RQ" in the shipping name).
	NOTE: N.O.S. descriptions must include the two (2) most predominant constituents that contribute to the hazard of the mixture or solution, in parentheses after the description. Not required for lab-pack shipments.
	☐ Hazard Class or Division Number
	☐ ID Number (UN/NA)
	☐ Packing Group
	12. Containers (No. and Type)
	 Verify that the number of containers for each waste and the proper abbreviation for the type of container are entered. See back of manifest for a list of container abbreviations.
	NOTE: Only the container abbreviations identified are permitted to be used.
	13. Total Quantity
	Verify that the total quantity of the waste described on each line is entered.
	14. Unit (Wt./Volume)
	 Verify that the appropriate abbreviation used for the unit of measure is entered. See back of manifest for a list of unit of measure abbreviations.
	NOTE: Only the unit of measure abbreviations identified are permitted to be used.
	I. Waste No.
	 Verify that the EPA hazardous waste code number(s) are entered. If no waste code is available, confirm that "NONE" is entered.
	 If applicable, verify that either the Destination or the Generator State waste code(s) are entered. If there is both a Destination and Generator State waste code, then enter the Destination State waste code under Item I and the Generator State waste code under Item J. If no state waste code exists, confirm that "None" is entered.
	NOTE: Additional waste codes must be entered in section <i>J. Additional Descriptions for Materials Listed Above</i> .
	This includes the special Missouri waste codes for polychlorinated biphenyls, dioxin wates and certain used oils.
	J. Additional Descriptions for Materials Listed Above
	 Verify that the specific gravity is provided for those wastes listed in gallons, liters or cubic yards. (Specific gravity may also be provided in section 15.)
	NOTE: This section may also be used to additional waste codes and additional information required by other states. (Ex: Trailer License #)

'	Item ¹
	K. Handling Codes
	Verify that this section is left blank.
	15. Special Handling Instructions and Additional Information
,	Verify that a 24-hour emergency phone number is entered.
	Verify that the ERG number is entered in this section.
	NOTE: This section may also be used to indicate special transportation, treatment, storage, or disposal information.
	16. Generator's Certification
	 Verify that the generator has printed/typed their name, signed, and dated the manifest.
	17. Transporter 1 (Acknowledgement of Receipt of Materials)
	 Verify that the Transporter 1 driver has printed/typed their name, signed, and dated the manifest.

TEXAS COMMISSION ON **ENVIRONMENTAL QUALITY** P.O. Box 13087

TCEQ.0311 (REV.09/81/02) 4 - 0 0 0 0 0



6-193-02

Austin, Texas 78711-3087 Form Approved. QMB No. 2050-0039. Please print or type. (Form designed for use on ellte (12-plich) typewriter.) information in the shaded areas Manifest 2. Page 1 1. Generator's US EPA ID No. **UNIFORM HAZARDOUS** Document No. is not required by Federal law. of WASTE MANIFEST 3. Generator's Name and Mailing Address LITTON INTERCONNECT PCBO 4811 W KEARNEY ST SPRINGFIELD MO 65803 417 862-0751 4. Generator's Phone (US EPA ID Number 5. Transporter 1 Company Name MOD000669069 SAFETY-KLEEN SYSTEMS, US EPA ID Number 7. Transporter 2 Company Name TXR000050930 SAFETY-KLEEN SYSTEMS, INC D. Designated Facility Name and Site Address 000618 SAFETY-KLEEN SYSTEMS, INC. 1722 COOPER CREEK ROAD US EPA ID Number 76208 DENTON. TXD077603371 13 12. Containers 11. US DOT Description (including Proper Shipping Name, Hazard Class, ID Total Waste No Type Number and Packing Group) Quantity HM WASTE SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S.(FLUOBORIC ACID) 8 UN3244 PGII (ERG#154) UTS409H DM X GWZWRAT HAZARDOUS WASTE, SOLID, N.O.S. (LEAD) b. UTSGLOH DM X OR RO WASTE PAINT RELATED MATERIALS 3 UN1263 PG II (DOO1) (ERG#128) DUTS 2 1 1 1 DM X d. HOOT FOOS BOOL DOOS DOOS GENSE BLATE NUMBER 15. Special Handling Instructions and Additional Information MFST R/T#106849294 0001-8708-01 EMERGENCY RESP 800-468-1760(24 HR). IF UNDELLIVERABLE RETURN TO GENERATOR SK CORP AUTH D TO USE SUBSEQUENT CARRIERS: 40343, 41038, 81681, 82739, 86256 TRANS H-1273 MO-001317- SKDOT# A: 173283 B: 22330 C: 23579 D: 15. Special Handling Instructions and Additional Information 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked, and tabelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national dassified, packed, marked, and labelled/placarded, and are that respects in proper distance of the degree in proper distance of the degree is not a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be if I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Month Day Signature Printed / Typed Name Date 17. Transporter 1 Acknowledgement of Receipt of Materials Day Month Signature Printed / Typed Name Date 18. Transporter 2 Acknowledgement or Receipt of Materials Year Month Day Signature Printed / Typed Name 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19, Date Month Day Yes Signature Printed / Typed Name Pink-TSD Facility Yallow-Transporter Green-Generator's first copy

White - original

DEFINING THE FUTURE

RCRA Hazardous Waste Training Program

Objective

This RCRA Hazardous Waste Training Program describes all of the elements of the personnel training program for hazardous waste management at Interconnect Technologies Division of Litton Systems, Inc. (Litton-ITD) in Springfield, Missouri. The objective of the RCRA Hazardous Waste Training Program is to train employees on the proper methods of hazardous waste handling, to familiarize employees with the regulations, and to answer questions with employees who affect hazardous waste compliance. This training session also includes familiarity with the Contingency Plan, the SPCC Plan, and the Site Security Plan.

Training Description

Employees in the Environmental Control, Plating Maintenance, and Facility Maintenance Departments as well as Wet Lab Technicians and Emergency Coordinators (as indicated in RCRA Contingency Plan) receive annual onsite RCRA training from the Environmental Engineer. The onsite RCRA training covers the types of hazardous wastes generated onsite and gives specific requirements for packaging, labeling, storage, and moving waste in the facility. Procedures to maintain compliance are included in this training. A short test is administered at the conclusion of training, and filed in the Environmental Engineer's office.

Training is done within 6 months of assuming one of the positions described above. Prior to training, these employees will not work unsupervised. This training is performed annually.

Jami Gay, the Environmental Engineer for the site, receives off-site training on an annual basis. This off-site training covers hazardous waste identification, waste accumulation and storage requirements, release response and reporting standards, manifesting, and Land Disposal Restriction requirements.

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Job Titles and Job Descriptions

Duties of personnel who are required to receive annual hazardous waste training are detailed below. Attachment #1 contains a table which identifies those individuals who need annual RCRA training and their associated job titles and departments. Attachment #2 contains job descriptions from Human Resources for those personnel who need annual RCRA training.

The Environmental Control Department (ECD) is responsible for wastewater treatment (WWT), moving wastes from areas to waste storage, packaging and labeling wastes, managing wastes within the less than 90 day storage area, and constructing needed project materials, if needed. WWT duties include sampling/monitoring/adjusting chemistries and maintaining compliance with the site's WWT permit. ECD has one or more employee(s) onsite 24 hours/day, 7 days/week, and 365 days/year.

Plating Maintenance is responsible for chemical bath maintenance, replacing solutions, performing appropriate preventative maintenance, handling spent baths prior to proper wastewater treatment by the ECD.

Facility Maintenance is responsible for maintenance of facility equipment thru practices of preventative maintenance, monitoring, adjustment and special projects.

The Wet Lab Technicians empty the hazardous waste containers located under the atomic absorption units into an adjacent lift station that leads to WWT. These technicians are responsible for ensuring proper labeling of the hazardous waste containers.

The Environmental Engineer for the site coordinates all waste activities, inspects satellite and waste storage areas, oversees off-site waste shipments, and conducts environmental training for all onsite personnel.

The Emergency Coordinators are responsible for overseeing emergency response activities in the case of a spill, fire, release, or other incident involving hazardous materials.

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Attachment #1

Employees Subject to Annual RCRA Training Requirements

Name	Job Title	Department	
Jami Gay	Environmental Engineer and	Environmental & Safety	
•	Emergency Coordinator		
Brian Thompson	Emergency Coordinator	Environmental & Safety	
Audi Luna		Manufacturing Engineering	
	Emergency Coordinator		
Ramona Andrews	Sr. Wet Lab Technicians	Quality	
Bonnie Jennings	Sr. Wet Lab Technicians	Quality	
Auston Rushing	Lead Environmental Technician	Environmental Control	
Tom Lyles	Senior Environmental Technician	Environmental Control	
Jerry Diehl	Environmental Technician	Environmental Control	
Rick Petit	Senior Environmental Technician	Environmental Control	
Tony Nida	Environmental Technician	Environmental Control	
Brent Breshears	Senior Plating Maintenance Tech	Plating Maintenance	
Eric Dunn	Senior Plating Maintenance Tech	Plating Maintenance	
Gary Lewis	Senior Plating Maintenance Tech	Plating Maintenance	
Jay Robinson	Lead Maintenance Mechanic	Facility Maintenance	
Bruce Pruitt	Maintenance Mechanic III	Facility Maintenance	

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Attachment #2

Employee Job Descriptions from Human Resources

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Date:	October 21, 2004	FLSA:	Non-Exempt	Grade: H06		
Job Title:						
Reports To (title): Lead or Lab & Chem Mainter	nance Manager				
Summary of	Duties and Responsibilities:					
	dently to add chemicals to manufacturings/solutions and cleans lines. Performs					
Essential Du	ties and Responsibilities:			% Time		
additional che	gned preventative maintenance tasks and emicals to be added to manufacturing so tails on chemicals to be added, and gath	olutions/baths. Prints	s computerized	face 20		
Measures or p	oumps out needed amounts of chemicals actions. Places measured amounts in m memicals using carts, dollies, pallet jacks	arked containers or i		40		
Adds required chemicals wh	d chemicals to lines. Assists with pump ten required. Notifies environmental tec bing/cleaning operations.	ing out, cleaning lin				
	ic preventative maintenance on lines (i.e.	e., changing filters).		10		
Completes po	ost-maintenance hard copy forms to doc ates, etc. following department procedure	ument work perform		ment 2		
	eanliness of work areas and storage room	n.		2		
	nt work instructions and chemical hazard		Attends internal	4		

Non-Essential Duties and Responsibilities:	% Time
Participates in special projects as required.	2
Total Essential and Non-Essential:	100%

DEFINING THE FUTURE

Date: October 21, 2004		Grade: H07
Job Title: Plating Maintenance Technician	Department: Quality Control	– Labs
Reports To (title): Lead or Lab and Chem Mainte	nance Manager	····
Summary of Duties and Responsibilities:		
Acts independently to add chemicals to mixtures or reperforms preventative maintenance as needed.	place chemical baths/solutions. Clean	ns lines and
Essential Duties and Responsibilities:		% Time
Reviews assigned preventative maintenance tasks and additional chemicals to be added to manufacturing solunotices for details on chemicals to be added, and gathe shield, etc.).	ations/baths. Prints computerized	20 ce
Measures or pumps out needed amounts of chemicals detailed instructions. Places measured amounts in mar Transports chemicals using carts, dollies, pallet jacks,	ked containers or in beakers.	30
Adds required chemicals to lines. Pumps out, cleans linequired. Notifies environmental technicians of estimate pumping/cleaning operations. Notifies maintenance results.	ines, and replaces chemicals when attend discard volume prior to	20
Performs preventative maintenance on lines (i.e., chan	ging filters).	10
Completes post-maintenance hard copy forms to docur completion dates, etc. following department procedure chemicals added.	ment work performed, downtime,	ent 10
Maintains cleanliness of work areas and storage room.		2
Maintains knowledge of current work instructions and Attends internal specialty training.		2
May assist less experienced personnel.		4
Non-Essential Duties and Responsibilities:		% Time
Participates in special projects as required.		2
	Total Essential and Non-Essen	tial: 100%

DEFINING THE FUTURE

Date:	October 21, 2004	FLSA:	Non-Exempt G	
Job Title:	Senior Plating Maintenance Technician	Department:	Quality Control –	Labs
Reports To (title): Lab & Chemical Maintena	ince Manager		
Summary of	Duties and Responsibilities:			
solder baths.	dently to add chemicals to mixtures, Cleans lines and performs preventat bersonnel. May act as working group	ive maintenance as need	solutions, and chan led. Assists/trains	less
Essential Du	ties and Responsibilities:			% Time
additional che	gned preventative maintenance tasks emicals to be added to manufacturing tails on chemicals to be added, and g	solutions/baths. Prints	computerized	10
Measures or p	oumps out needed amounts of chemic actions. Places measured amounts in emicals using carts, dollies, pallet ja	marked containers or i		20
Adds required required. No	d chemicals to lines. Pumps out, cleatifies environmental technicians of ending operations. Notifies maintenant	ans lines, and replaces of stimated discard volume	e prior to	20
Processes sol	der and copper baths by cleaning out and pumping back into manufacturin	lines, treating the solut	ion following	11
Performs pre	ventative maintenance on lines (i.e., maintenance items.	changing filters). Hand	les the more	10
Completes po	ost-maintenance hard copy forms to cates, etc. following department process	document work perform edures. Updates compu	ed, downtime, ter files to documer	10
	eanliness of work areas and storage re	oom.	-	8
Maintains kn	owledge of current work instructions nal specialty training.	and chemical hazards	and prevention.	4
	less experienced personnel.			4
May act as W	Vorking Group Lead, which includes tion, reporting on performance and p	assigning people to task problems, and ordering	ks, monitoring worl	
	al Duties and Responsibilities:			% Time
Participates i	n special projects as required.			2
· · · · · · · · · · · · · · · · · · ·		Total Essent	ial and Non-Essenti	al: 100%

DEFINING THE FUTURE

Date:	Janua	ry 21, 2004	FLSA:		Grade:	9
Job Title:	Lead	Maintenance Mechanic	Department:	Manufacturing of	or Facilit	ies
Reports To (ti	tle):	Manager				
Summary of I	outies a	and Responsibilities:				
repairs and pre plumbing; pun blueprints, dra handling comp	ventati ips; coi wings o lex pro	nd daily work direction to not maintenance on mechan ntrollers; conveyers; motors or work instructions. Responsiblems. Monitors and main	ical, electrical, electro-nos, etc. Repairs/services and onsible for troubleshooti	nechanical equipm according to layouing repair requests.	nent; hydi it plans, , includin ork proce	raulics; g edures.
Essential Duti	es and	Responsibilities:			%	% Time
Determines pe	rsonal	requirements and prioritize workload and assembles too equipment not in use.	es daily preventative ma ols. Meets with product	intenance requests ion supervisors to	5.	5
Performs preve	entative	maintenance on a wide va		inery and equipme	nt	10
Receives down work. Respon	n-equip ds to re	ment and facility service re quests to repair equipment machinery or facility equip	equests via calls or work or facility problems. A	ssesses or diagnos	es	10
Plans projects responsibilities	and ass	igns project personnel. Ac Ils or moves machinery and n equipment modifications.	ts as project leader or as d equipment using hoist	ssigns leader s, dollies, rollers, a	and	10
Completes pos completion da report generati	t-main es, etc. on, pro	renance hard copy forms to following department proc ject planning, and correspo al work needed on equipment	document work perform cedures. Uses computer ondence. May complete	ned, downtime, for input, retrieva	ı,	10
	ent kno	wledge of building codes a		tends internal		2
Provides leade	rship a	nd direct supervision to me		oyees. Provides in	nput	30
Orders parts/m	~					22
		s and Responsibilities:			9	% Time
<u>derbadistration in Africa</u>	NATIONAL SECTION	projects as required.	September 1 of the late of the property of the late of			1
	. 1	<u>, , , , , , , , , , , , , , , , , , , </u>				
			Total Ecconi	tial and Non-Esser	.4: -1.	100%

NORTHROP GRUMMAN DEFINING THE FUTURE

Date: January 21, 2004	FLSA:	Hourly	Grade:	9
Job Title: Maintenance Mechanic III	Department:	Manufacturing	or Faciliti	es
Reports To (title): Working Group Lead			·	
Summary of Duties and Responsibilities:				
Works independently to perform repairs and preven mechanical equipment; hydraulics; plumbing; pump according to layout plans, blueprints, drawings or w requests, particularly with complex problems, and c department procedures. Assists and trains less expe	os; controllers; convey ork instructions. Rescompletes paperwork	yers; motors, etc. sponds to troubles	Repairs/ shooting re	services epair
Essential Duties and Responsibilities:			9/	6 Time
Reviews daily preventative maintenance requests by and tool needs. Plans daily work schedule including palance priorities to be done with equipment not in	g meeting with produc			2
Performs preventative maintenance on a wide varieusing hand tools, automated tools, probes, meters, to	-	nery and equipme	ent	25
Responds to down-equipment requests (calls or wriding dismantles machinery or facility equipment, and rep	tten). Assesses or dia	•	,	30
Completes facility service requests and participates or moving machinery and equipment using hoists, dearticipating on equipment modifications.	in maintenance proje	cts such as instal	ling	29
Completes post-maintenance hard copy forms to do completion dates, etc. following department proced and basic reports and correspondence. May complete additional work needed on equipment.	ures. Uses computer	for input, retrieva	al	5
Maintains current knowledge of building codes and specialty training.	safety practices. Atte	ends internal		2
Provides knowledge transfer and assists and trains land acts as project leader for assigned projects. May order parts/materials.	ess experienced mech	nanics. Plans pro	jects	5
Non-Essential Duties and Responsibilities:			9/	6 Time
Participates in special projects as required.			gjaries Dief	2
articipates in special projects as required.				
	T (LE , '	ial and Non-Esse	(*-1	100%

DEFINING THE FUTURE

Date:	Octob	per 7, 2004		FLSA:	Non-Exempt	Grade	: H09
Job Title:		Environmental	Technician	Department	: Quality Contro	ol - Labs	
Reports To (ti	tle):	Lab & Chem	Maintenance	Manager			
Summary of I	outies a	ınd Responsib	ilities:				
[black] waste 1	ines tre	atment, adjusts	treatment che	ing waste water for d emical flows, and pro field remediation wel	cesses sludge rem	oval. Pe	rforms epartment
Essential Duti	es and	Responsibiliti	es:				% Time
(lead, copper, i	nickel) eter wit ent sam	or acids. Anal _! th purchased la	yzes solutions b samples to	orms lab tests for cond susing atomic absorp establish the high and blids (ppm metals) and	tion tester. Calibr l low parameters a	ates and	15
Monitors comp lab tests, manu	outerize ally adj water	justs pump flov baths to mainta	ws of chemica	Using data from comuls to treatment tanks. els. Changes out/repl	Manually adds c	ertain	10
Pumps solids r	emoved ater. Se	d from waste wends water for		g tanks. Filters and p of waste water and ext			9
Troubleshoots	probler ration a	ns. Performs r		eventative maintenandion equipment. Main		of	5
		aining parking	lot and sidew	alks for snow and ice	removal. Mows	field.	6
Responsible fo	r maint	aining remedia	ation well pun	nps. Monitors well de erations to environme	epth, troubleshoot	s	25
Maintains kno internal specia	wledge	of current wor	k instructions	, chemical hazards an	d prevention. Att	tends	3
	g grou	p lead which in		ing tasks/projects, scl	neduling personne	l, and	12
Non-Essential							% Time
Participates in	special	projects as rec	luired.				15
				Total Essei	ntial and Non-Esse	ential:	100%

DEFINING THE FUTURE

Date:	October 7, 2004	FLSA:	Non-Exempt	Grade:	H09
Job Title:	Senior Environmental Technician	Department:	Quality Contro	ol - Labs	
Reports To (title): Working Group Lead or Lab	& Chem Maintenand	ce Manager		
Summary of	Duties and Responsibilities:			¥ 34 34	
[black] waste	dently to chemically treat manufacturing lines treatment, adjusts treatment chem aintenance on equipment. Assists/trains	ical flows, and proce	esses sludge rem	noval. Per	forms
Essential Du	ties and Responsibilities:				% Time
(lead, copper, spectrophotor	nples of treated waste water and perform, nickel) or acids. Analyzes solutions us meter with purchased lab samples to estauent samples. Logs Ph, percent of solid	sing atomic absorption ablish the high and l	on tester. Calibrow parameters a	rates and	18
Monitors con lab tests, man concentrates	nputerized water treatment in tanks. Using adjusts pump flows of chemicals to water baths to maintain proper levels. tainers when empty.	to treatment tanks. I	Manually adds c	ertain	25
Pumps solids	removed from waste water to holding to water. Sends water for re-treatment of w			;	18
Troubleshoot	s problems. Performs repairs and preve	ntative maintenance	on equipment.		12
	for maintaining parking lot and sidewall	s for snow and ice r	emoval. Mows	field.	3
Maintains kn internal speci	owledge of current work instructions, ch	nemical hazards and	prevention. Att	tends	12
	less experience personnel.				2
	al Duties and Responsibilities:				% Time
Participates in	n special projects as required.				10
		Total Essent	, <u>.</u>		

DEFINING THE FUTURE

Date:	October 7, 2004	FLSA:	Non-Exempt	Grade:	H07
Job Title:	Environmental Technician	Department:	Quality Contro	ol - Labs	
Reports To (tit	tle): Working Group Lead or Lab & O	Chemical Mainter	nance Manager		
Summary of D	outies and Responsibilities:				
[black] waste li	ently to chemically treat manufacturing wants treatment, adjusts treatment chemical maintenance on equipment. Seeks assi	I flows, and proce	esses sludge rem	oval. Per	forms
	es and Responsibilities:				% Time
(lead, copper, n	les of treated waste water and performs latickel) or acids. Analyzes solutions using eter with purchased lab samples to establient samples. Logs Ph, percent of solids (p. 1.	atomic absorptions and leading the state of	on tester. Calibr ow parameters a	ates nd	19
Monitors comp lab tests, manua concentrates to	outerized water treatment in tanks. Using ally adjusts pump flows of chemicals to to water baths to maintain proper levels. Ciners when empty.	reatment tanks. I	Manually adds co	ertain	25
Pumps solids re	emoved from waste water to holding tank ater. Sends water for re-treatment of wast				25
Troubleshoots	problems or seek assistance for complicative maintenance on equipment. Maintains	ted problems. Pe	rforms basic repaintenance area.	oairs	15
Responsible for	r maintaining parking lot and sidewalks for	or snow and ice r	emoval. Mows	field.	1
Maintains knowledge of current work instructions, chemical hazards and prevention. Attends internal specialty training.					
	Duties and Responsibilities:				% Time
Participates in	special projects as required.				5
		Total Essenti	ial and Non-Esse	ential:	100%

DEFINING THE FUTURE

INTERCONNECT TECHNOLOGIES JOB DESCRIPTION

Date:	Nove	mber 1, 2002	FLSA:	Exempt	Grade:	8	
Job Title:	Envir	onmental Engineer	Department:	Facilities	es		
Reports To (title): Director of Facilities/Environmental							

Summary of Duties and Responsibilities:

Manages the environmental concerns for facility in Missouri. Acts as the focal point for all regulatory compliance, reporting and crisis management. Regulatory entities include, but are not limited to: EPA, DNR, DOT, DOJ, LEPC, OSHA and various City and County agencies.

Essential Duties and Responsibilities:	% Time
Performs regulatory and in-house reporting, including but not limited to: EPA - Form R, Tier II, Biannual Hazardous Waste Report, Waste Minimization Report. MDNR -	52%
Monthly Well Log Report, Quarterly Hazardous Waste Report, Quarterly Air	
Emissions Report, Quarterly Stormwater Report. City of Springfield - Monthly IRTM	
& Cooling Tower Report, Monthly Wastewater Contribution Report, EIQ Emissions	
Inventory Questionnaire. Internal - Monthly Waste Shipment Report.	
Provides environmental engineering support (technical advisement, engineering calculations, process adjustment, etc.) to Interconnect Technologies wastewater operations and remediation efforts.	5%
Advises on environment concerns at field facilities. Works with supervisory and non- supervisory personnel to solve problems and make corrections and changes to meet requirements and improve quality.	5%
Advises for compliance with federal, state, and local environmental regulations and handles all contact with appropriate agencies for all domestic locations. Secures required permits.	10%
Acts as internal environmental engineering resource to other functional areas and outside contractors or agencies. Provides environmental engineering support and services.	2%
Provides required environmental training for plant personnel and outside contractors.	5%
Responsible for development and implementation of policies and procedures relating to environmental. Makes recommendations for changes.	5%
Keeps abreast of changes in environmental regulations and competitive practices. Makes recommendations for improvements.	2%
Provides input into annual budget, including any capital purchases.	2%
Reviews and approves all plant chemistry for environmental compliance, waste treatment and toxicological safety.	2%
Provides all DOT Hazardous Waste training, transportation paperwork, shipping container selection and labeling.	2%
Performs plant wide environmental compliance inspections.	2%

DEFINING THE FUTURE

Essential Duties and Responsibilities:	% Time
Assists with chemical handling safety training.	2%
Approves the use of waste disposal methods and facilities.	2%
Serves as a Safety Committee Member.	1%
Serves as Primary Emergency Response Coordinator.	1%

Non-Essential Duties and Responsibilities:					% Time
Participates in special projects as required.					2%
	 To	tal Esse	ntial and	Non-Essential:	100%

This job description is not necessarily an exhaustive list of all responsibilities, skills, duties, requirements, efforts, or working conditions associated with the job. While it is intended to be an accurate reflection of the current job, management reserves the right to revise the job or require that other or different duties/tasks be performed.

DEFINING THE FUTURE

INTERCONNECT TECHNOLOGIES JOB DESCRIPTION

Date:	Septem	ber 14, 2005	FLSA:	Exempt	Grade: 5
Job Title:	Enginee	er I	Department:	PCB Engineering	
Reports To (T	itle):	Manufacturing Enginee	ring		

Summary of Duties and Responsibilities:

Works closely with senior engineers to design/develop, layout and improve manufacturing products or processes for the production of printed circuit boards. Monitors assigned operations and develops solutions to routine technical problems applying mechanical and/or chemical engineering principles, theory and concepts. Documents results.

Essential Duties and Responsibilities:	% Time
Evaluates documented customer requirements with current manufacturing capabilities and potential printed circuit board capabilities through new development. Provides input and suggestions.	10
Participates in the design and planning of layouts for processes such as etching, laminating, photo printing, and plating. Conducts tests and measurements throughout stages of production to assess and maintain control over process variables (i.e., temperature, density, pressure, tolerance, human error, etc.). Experiments with various processes and materials to improve manufacturing and lower production costs. May participate in cross-functional design teams.	45
Documents designs, procedures and work instructions under the direction of experience engineers. Provides input and suggestions for changes in work plans to meet customer and quality expectations and improve efficiencies.	10
Reviews performance outcomes, investigates problems, and revises documented procedures and instructions as needed. Reviews design process with appropriate manufacturing departments.	5
Compares manufacturing practices with external benchmarks and industry best practices. Maintains current knowledge on industry standards. May suggest improvements, including new technology.	5
Participates in meetings with manufacturing, engineering and maintenance personnel to support production goals.	5

Non-Essential Duties and Responsibilities:	% Time
Participates on special projects as assigned.	20
Total Essential and Non-Essential:	100%

DEFINING THE FUTURE

INTERCONNECT TECHNOLOGIES JOB DESCRIPTION

Date:	Octob	er 1, 2004	FLSA:	Non-Exempt	Grade:	Н9
Job Title:	Senio	r Safety Technician	Department:	Facilities, PCB Operations		S
Reports To (tit	tle):	Director- Engineering & Facilitie	S			

Summary of Duties and Responsibilities:

Acts independently to outline and implement training programs on safety procedures and accident protection and prevention. Inspects facilities and maintains safety data. Recommends corrections and precautions to ensure regulatory compliance. Participates on safety and emergency teams/committees.

Essential Duties and Responsibilities:	% Time
Facilitates safety training programs or coordinates outside vendors to conduct training.	18
Develops handouts and tracks employee attendance.	
Participates in accident investigations and serves on the safety committee. Interviews victims	7
and witnesses as necessary. Documents results and relays to safety committee along with	
possible corrections and/or precautions.	
Performs air sampling and sound level assessments. Inspects, collects and maintains various	10
safety data such as injuries, illness reports, air sampling results, safety training, etc.	
Reviews and recommends personal protective equipment, material handing equipment, and	14
changes in safety-related procedures to ensure regulatory compliance. Makes or orders safety-	
related signs.	
Participates on emergency response team including planning and preparations for	6
emergencies. Administers first aid.	
Researches, writes and updates health and safety programs such as: Respiratory Protection	21
Program, Exposure Control Program, Hazard Communication Program, Chemical Hygiene	
Plan, Hazardous Waste Operations and Emergency Response, Asbestos Control Program,	
TSCA Program, Confined Space Entry, Emergency Evacuation Plan, Lock-out Tag-out	
Program, and Powered Industrial Trucks Program. Includes keeping abreast of regulatory	
changes.	
May represent the company to external health and safety auditors and insurance inspectors.	8
Communicates with corporate safety personnel and OSHA.	
Participates in special projects as needed such as designing solutions to ergonomic or safety-related problems, or implementing Safety Committee solutions.	16

Non-Essential Duties and Responsibilities:					% Time
Inventories first aid supplies.	Windows III				2
Other projects as assigned.					34
·	To	tal Essential and	l Non-Ess	ential:	100%

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INTERCONNECT TECHNOLOGIES JOB DESCRIPTION

Date:	October 21, 2004	FLSA:	Non-Exempt	Grade:	AN6
Job Title:	Chem Lab Technician	Department:	Quality Contro	ol – Labs	
Reports To (title): Lab & Chemical Maintenance Manager					-

Summary of Duties and Responsibilities:

Under general supervision, works in a laboratory setting to test chemical/metal bath solutions to determine if mixtures are within acceptable manufacturing standards. Learns to perform a variety of tests and use a variety of testing tools and equipment. Notifies appropriate personnel of non-conforming solutions so mixtures can be fixed.

Essential Duties and Responsibilities:	% Time
Receives samples of solution/baths used in manufacturing from operators for testing. May pull own samples. Reviews current work instructions for recent changes to ensure maintaining current knowledge.	10
Performs chemical tests to determine the concentration of chemical baths/solutions following detailed instructions and taking readings.	25
Analyzes metals using atomic absorption spectrophotometer. Runs baseline tests with purchased standards to establish the high and low parameters and then tests diluted samples of metal baths. Repeats, changing dilution factor (if necessary) until mixture falls within quality standards.	5
Analyzes brightners in acid copper baths by placing brass panel into hull cell, attaching terminals to add amps to panel, removing and drying panel, and visually measuring burn against a Hull cell ruler.	20
Prepares samples and measures absorbance via Spec 21 equipment.	5
Inputs test readings into computer programs for processing against standards. If tests results are within acceptable levels, completes "Go" tag/card giving authority for equipment to continue operating using bath/solution. If test results are not in compliance, notifies applicable group of discrepancy and issues non-conformance report.	15
Maintains cleanliness of lab area. Cleans and washes beakers, vials, etc.	15

Non-Essential Duties and Responsibilities:	% Time
Participates in special projects as required.	5
Total Essential and Non-Essential:	100%

DEFINING THE FUTURE

INTERCONNECT TECHNOLOGIES JOB DESCRIPTION

Date:	October 21, 2004	FLSA:	Non-Exempt	Grade:	AN8
	Senior Chem Lab Technician	Department:	Quality Contro	l – Labs	
Reports To (title): Lab & Chemical Maintenance Manager					

Summary of Duties and Responsibilities:

Acts independently in a laboratory setting to test chemical/metal bath solutions to determine if mixtures are within acceptable manufacturing standards. Performs a variety of tests and uses a variety of testing tools and equipment. Includes testing of gold baths. Notifies appropriate personnel of non-conforming solutions so mixtures can be fixed.

Essential Duties and Responsibilities:	% Time
Receives samples of solution/baths used in manufacturing from operators for testing. May pull own samples. Reviews current work instructions for recent changes to ensure maintaining current knowledge.	10
Performs chemical tests to determine the concentration of chemical baths/solutions following detailed instructions and taking readings.	25
Analyzes metals using atomic absorption spectrophotometer. Runs baseline tests with purchased standards to establish the high and low parameters and then tests diluted samples of metal baths. Repeats, changing dilution factor (if necessary) until mixture falls within quality standards.	. 5
Analyzes brightness in acid copper baths by placing brass panel into hull cell, attaching terminals to add amps to panel, removing and drying panel, and visually measuring burn against a Hull cell ruler.	10
Prepares samples and measures absorbance via Spec 21 equipment.	5
Performs gold concentration tests. Weighs and processes solution to separate and filter the gold. Reweighs crucibles. Using testing data, takes amp readings from plant equipment, makes gold adds as needed. Completes log to track adds to solution. Prepares monthly gold usage report.	10
Performs impurity gold tests using plated deposits and solution methods.	. 5
Inputs test readings into computer programs for processing against standards. If tests results are within acceptable levels, completes "Go" tag/card giving authority for equipment to continue operating using bath/solution. If test results are not in compliance, notifies applicable group of discrepancy and issues non-conformance report.	10
Maintains cleanliness of lab area. Cleans and washes beakers, vials, etc.	5
May act as working group lead which includes assisting/training less experienced personnel, ordering supplies, updating work instructions, etc.	10

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# [4] 사고 그는 이렇게 19 19 19 46 46 19 19 19 19 19 19 19 19 19 19 19 19 19	% Time
Non-Essential Duties and Responsibilities:	A TITIE
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Non-Essential Duties and Responsibilities:	% Time
Participates in special projects as required.	5
Total Essential and Non-Essential:	100%



Component Technologies

Interconnect Technologies

DEC 2 7 2005

Interconnect Technologies Division Litton Systems, Inc.

4811 West Kearney Street Springfield, MO 65803-9579 Phone: 417-829-5200

NO: 16877

Date 12/20/2005

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